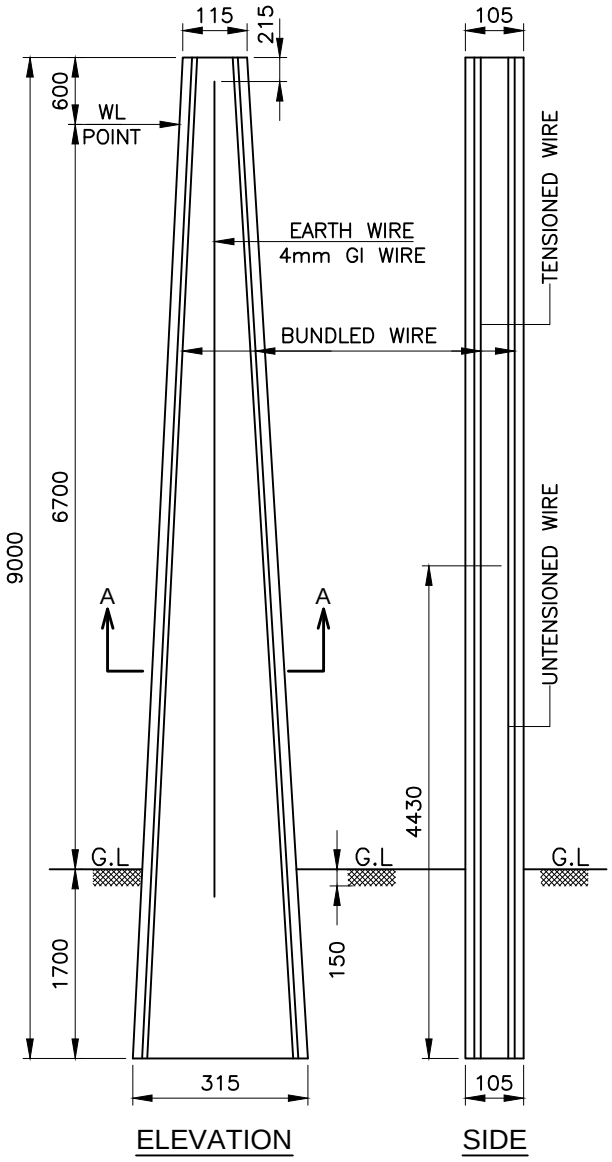
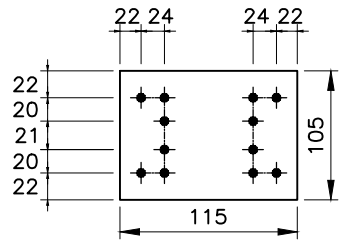
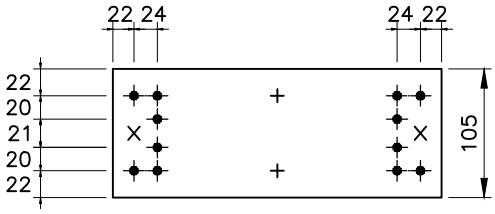
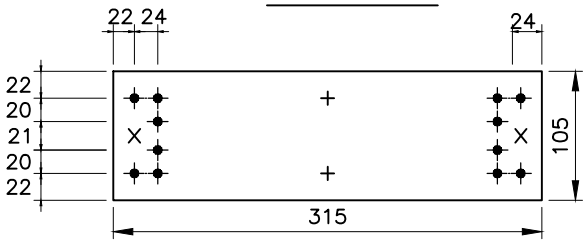




PLAN AT TOP



PLAN AT A-A



PLAN AT BOTTOM

● DENOTES TENSIONED WIRES
X DENOTES UNTENSIONED WIRES
+ POSSIBLE POSITION OF EARTH WIRE

TECHNICAL GUARANTEE PARTICULARS:

SECTION	
CONCRETE QUANTITY PER POLE	0.203 Cu.M
CONCRETE GRADE	M–40
STEEL QUANTITY PER POLE	12.39 Kg.
OVERALL LENGTH SUPPORT	9.0 Mtr
PLANTING DEPTH	1.7 Mtr
DIAMETER OF PRESTRESSING WIRE	4mm
NUMBER OF TENSIONED WIRES	12 NOS
NUMBER OF UNTENSIONED WIRES	2 NOS
PRE–TENSIONED APPLIED TO EACH 4mm WIRE	1760 Kgs
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS	420 Kg/Cm3
CLEAR COVER WIRES	20mm
FACTOR OF SAFETY	2.5
WORKING LOAD	200 Kgs
ULTIMATE LOAD	500 Kgs
WEIGHT OF POLE	480 Kgs.
LOAD APPLICATION AT A POINT FROM THE TOP	600 mm
ULTIMATE TENSION STRENGTH FOR 4mm WIRE	17500 Kg/Cm2

NOTES:–

1. FOR HOLDING PART LENGTH UNTENSIONED WIRES IN POSITION, 4mm ø M.S STIRRUPS MAY BE USED WITH SUITABLE SPACING.
2. IF ANY PRACTICAL DIFFICULTY IS EXPERIENCED IN USING PART LENGTH UNTENSIONED WIRES, FULL LENGTH WIRES MAY BE USED INSTEAD. BUT THE TENSION IN THESE. WIRES SHOULD NOT EXCEED 9% OF THEIR U.T.S VALUE HOWEVER IT MAY BE NOTED THAT USE OF PART LENGTH UNTENSIONED WIRES WILL BE MORE ECONOMICAL.
3. FOR MORE DETAIL REFER I.S.1678.

Note: To make the poles surface non-slippery or antiskid the manufacturers shall add a textured or roughened finish to the pole surface by sand blasting/ abrasive blasting or adding ridges, grooves or knurling patterns

	Signatures	All dimensions are in mm unless otherwise stated.	ಬೆಸ್ಕಂ BESCOM
Chd	AGM (QS&S)	REINFORCEMENT DETAILS OF 9.0 M 200 Kg. PRESTRESSED CEMENT CONCRETE POLE FACTOR OF SAFETY=2.5 (P.S.C.C)	Approved: General Manager,(Elec.) QS&S
Sub	DGM (QS&S)		DRG.NO.BESCOM/GM/QS&S/50 REV–003 DATED:23–12–2019
	SCALE: N.T.S		